Since 1975, the industry leader in precision lapping and polishing of materials for microelectronics, electro-optics, photonics, semiconductors and other applications that require general precision parts from geometries ranging from a few millimeters to several feet in dimension

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• ISO 9001:2000 Certified Manufacturer of Substrates, Windows, Wafers, Flat Optics, Chucks and other Components
• High-End, Precision Lapping, Polishing, DISCO Backgrinding, Blanchard and Surface Grinding, CNC Dicing, CMP Polishing, and Ultra-Sonic Hole Drilling
• Over 30 Years Experience, All Processing Performed In-House
• Advanced R&D Lab
  Metrology Capabilities
  including WYKO Optical Interferometer and Laser Profilometer
• Routinely processing parts ranging from .005” square up to 48”
• East and West Coast facilities for prototype to production projects

**Ultra-Thin**  **Ultra-Flat**  **Super Polishing**

< 25µm  1/10 Wave  < 5Å

**Tight Tolerances**  ± 0.5µm

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### Services
- Precision Lapping, Polishing, Dicing
- Die, Module & Bonded Wafer Thinning / CMP
- O.D. / I.D. Polishing
- Wafering
- Optical Edge/ Angle Polishing
- Slicing
- Ultra-Sonic Hole Drilling
- Large Geometry Lapping & Polishing up to 48”
- Dicing as small as .005” sq.

### Materials
- Fused Silica & Quartz
- Optical Glasses of all types
- Aluminum Nitride, 96% & 99.6% Al₂O₃ Ceramics
- Aluminum, Copper Stainless Steel and Titanium mirrors and wafers
- Sapphire
- Color Filter Glasses
- Ge, GaAs, LiNbO₃, LiF, InP, ZnSe, ZnS, PZT, PLZT, Si, SiC
- MANY MATERIALS IN STOCK

### Applications
- Substrates, Windows, Wafers, Flat Optics
- Electrostatic, Wafer and Vacuum Chucks
- Glass Rods/ Spacers
- Witness Samples
- SEMI Standard Dummy Wafers
- Waveguides, Beamsplitters, Polarizers, Lenses, Filters, Prisms, Wedges
- Thin Film Circuits, Satellite Products, MEMS and Nano-technology Devices

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With our highly skilled and experienced Engineering and Customer Service teams, you can count on Valley Design to meet your most demanding requirements.

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